

BEST AVAILABLE COPY

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 63110047
PUBLICATION DATE : 14-05-88

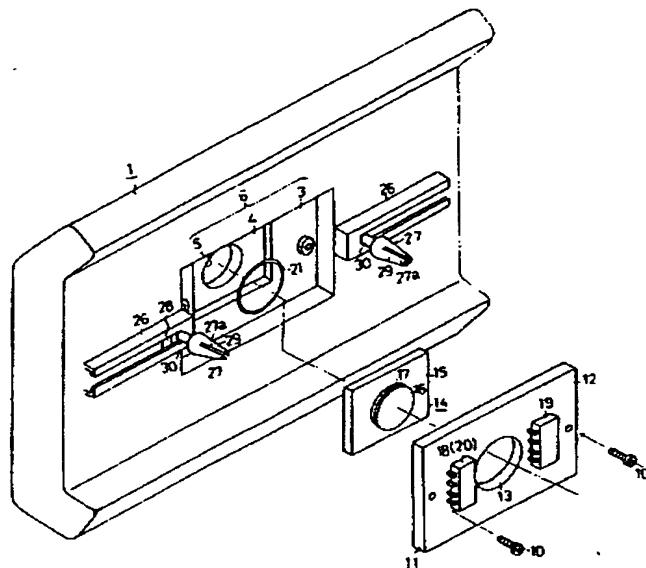
APPLICATION DATE : 27-10-86
APPLICATION NUMBER : 61255430

APPLICANT : TOYODA GOSEI CO LTD;

INVENTOR : TERAYAMA TATSUYA;

INT.CL. : B60R 11/02 // B60R 13/04 H04R 17/00

TITLE : EXTERIOR DECORATION ARTICLE
FOR AUTOMOBILE



ABSTRACT : PURPOSE: To install an alarm sound generating device for arousing attention to the outside of a car without deteriorating the outside appearance of the exterior decoration articles by incorporating a sound generating member consisting of a sound synthesizing circuit and a piezoelectric speaker into the exterior decoration article such as side protection molding.

CONSTITUTION: An installation recessed place 6 consisting of the first recessed place 3, second recessed place 4, and a penetration hole 5 is formed on the back surface of a side protection molding 1 for a door which has a nearly trapezoidal sectional form. A printed circuit board 12 equipped with an amplifier 18 and a sound synthesizing circuit 19 is installed into the first recessed place 3, and a piezoelectric speaker 14 in which an organic piezoelectric material 17 is nipped between a rectangular plate shaped electrode 15 and a disc-shaped electrode 16 is installed into the second recessed place 4 on the front surface, and a coated layer with the synthetic resin paint having the same color to the side molding is formed onto the penetration hole 5. Therefore, an alarm sound generating device for arousing attention for the outside of the car on the retreat of the car can be installed without deteriorating the outside appearance of the exterior decoration article such as side molding.

COPYRIGHT: (C)1988,JPO&Japio